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CHAL-0212  
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27 JUN 1958

MEMORANDUM FOR: Project Director

ATTENTION : Mr. [REDACTED]

SUBJECT : [REDACTED]

1. On 20 June a PSQ on [REDACTED], Vice-President and Director of Engineering of [REDACTED] was obtained and has been passed to [REDACTED] for action. A Brochure with data on all employees and a scope of work paper was also passed to Mr. [REDACTED]. As shown on the scope of work paper, the company would like a contract on a cost plus fixed fee basis. They will ask 10% profit, this is a higher profit figure than they have been able to obtain on any military project to date. They are currently battling with the Navy on a proposal to build the S-441 equipment unmodified and are insisting on 10% in that contract. The cost estimate of \$48,000 includes the \$35,000 originally estimated for building the equipment, \$10,000 for special problems associated with antenna mounting and repackaging in this special case and an estimate for \$3,000 for field test assistance.

2. The company estimates that it will take them five months\* to complete the first unit. They gave availability of parts as first reason for the five month period and when I offered to assist in speeding this up then said that their manpower available would not permit completion of the first unit in less than five months.\*\*

3. It is believed that we should include [REDACTED] at the same security level as [REDACTED]. This is due to John's sensitiveness at not being included. Also there are antenna problems in the project which will be handled by Mr. [REDACTED]. These antenna problems constitute sufficient justification for including him at the same clearance level as Mr. [REDACTED]. It is recommended that Mr. [REDACTED] be cleared to the same level as [REDACTED].

4. The Company believes that it will be necessary for four people to be informed for whom they are doing this work. The four would be:

Mr. [REDACTED]  
Mr. [REDACTED]  
Mis [REDACTED]  
Mr. [REDACTED]

\*This time was later reduced to 3 $\frac{1}{2}$ , at most, 4 months.

\*\*This Company is somewhat provoked at our Agency due to delays and other difficulties they have had in other contracts with our Agency.

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25X1 5. Technical discussions led to the establishment of the following requirements and capabilities for the subject jammer. The jammer should provide jamming against both conical scan and C-W signals in the 8-11.5 Kmc. range, with self determination as to which was illuminating the equipment and needed jamming. Furthermore the device would not start jamming action until the illuminating signal had locked on to the carrier aircraft. It was hoped that the device could be fitted into the space available above the jet exhaust but other places would be considered in the discussion between [redacted] Ayer must determine from [redacted] Martin the attitude of the aircraft in normal flight and the temperature of the space to be used in order to properly plan the packaging of the equipment. A problem will exist in the antenna installation since a high degree of isolation is required between receiving and transmitting antennas. 25X1 This problem will be handled by [redacted] upon data received from the [redacted] conversations. The design objective of the antennas will be to have 40° beam width in the horizontal and vertical planes with the vertical beam width directed 10° below the horizon, and the horizontal beam directed directly aft. A light will be provided for the pilot which will be illuminated only after a lock-on has occurred onto his aircraft.

6. Outputs shall be provided for monitoring, continuously or temporarily of the signal levels and modulation present, if any, of the intercepted signal and of the signal used to modulate the jammer. These outputs should be .1 volt for a threshold signal. These outputs should be isolated from the operating circuits of the jammer by cathode followers or similar devices so that faults in the monitoring equipments would not affect the jammer operations.

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[redacted]  
Acting ELINT Staff Officer

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